

# Work Order ID 121516

Thursday, June 26, 2014 3:02:10 PM

**\*121516\***

Page 1

Item ID: D4920-3 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: End Fitting  
 Start Date: 6/26/14 Start Qty: 18.00 **\*18\*** Cust Item ID:  
 Required Date: 6/26/14 Req'd Qty: 18.00 **\*18\*** Customer:  
 Reference:

Approvals: Process Plan: MLJ Date: 14-06-27 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr                       | Revision Nbr             |                      |         |        |              |               |               |                  |                |
| D4920                          | REV A                    |                      |         |        |              |               |               |                  |                |

100 0.00  
**\*100\***  
 Outsource5 Memo  
 Outsource process - Machining ISSUE P/O: 24906 0.00  
 POSSIBLE SUPPLIER: ATG  
 C OF C IS REQUIRED  
CL 14/07/08 18

110 0.00  
**\*110\***  
 QC Memo 0.00  
 Quality Control  
 QC6- Inspect dimensions to drawing  
 (P8) DAS  
 38  
 9-89  
 JAN 07, 2015

150 0.00  
**\*150\***  
 Purchasing PURCHASING 0.00  
 Purchasing Memo  
 Issue P/O: 24906  
 LPI Per ASTM 1417 LEVEL 2  
 Certificate of conformaty is required  
done @ ATC  
CL 14/07/08

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------------------|----------------------------------------------|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>                                                                                                                                                 | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>                                                                                                                                                 | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>                                                                                                                                                 | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |
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**Work Order ID 121516**

Thursday, June 26, 2014 3:02:10 PM

**\*121516\***

Page 2

Item ID: D4920-3

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

Stop

**\*NS2\***

Item Name: End Fitting

Start Date: 6/26/14

Start Qty: 18.00

**\*18\***

Cust Item ID:

Required Date: 6/26/14

Req'd Qty: 18.00

**\*18\***

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

**\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop

**\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160

Receive &amp; Inspect for Damage &amp; Mat'l Certs

0.00

**\*160\***

Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

165

St 138

18 X SP15-01-7

18

DAS  
66  
9-89

JAN 07 2015

190

QC21- Final Inspection - Work Order Release

0.00

**\*190\***

QC

Memo

0.00

Quality Control

MCJ 15-01-08

15-1-8

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
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| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
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| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
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# Picklist Print

Thursday, June 26, 2014 3:02:09 PM

Page 1

Work Order ID: 121516

**\*121516\***

Parent Item: D4920-3

**\*D4920-3\***

Parent Item Name: End Fitting

Start Date: 6/26/14

Required Date: 6/26/14

Start Qty: 18.00

Required Qty: 18.00

Comments: IPP REV:A NEW ISSUE JLM 14-01-28 VERIFIED BY:JFS

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D4920-3P                        |                        | Purchased     |             | No                  |                  |                 | Each               | 0.0000         |             | 18           |               |                |        |
| <b>*D4920-3P*</b>               |                        |               |             |                     |                  |                 |                    |                | <b>**</b>   |              |               |                |        |
| End Fitting                     |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| M174PH-H900R1.500               |                        | Purchased     |             | No                  |                  |                 | f                  | 31.8583        |             | 5.9994       |               |                |        |
| <b>*M174PH-H900R1 500*</b>      |                        |               |             |                     |                  |                 |                    |                | <b>**</b>   |              |               |                |        |
| 17-4SS H900 ROUND BAR 1.500     |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |

Location

Loc Qty

Loc Code

MAT031

31.8583

M128809

31.8583

18X SP 15-01-7

14-7-10

6 R+

88-8  
13  
540

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

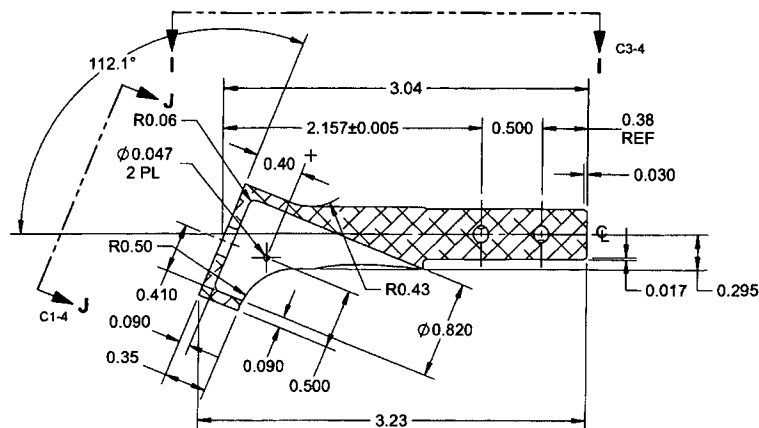
Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

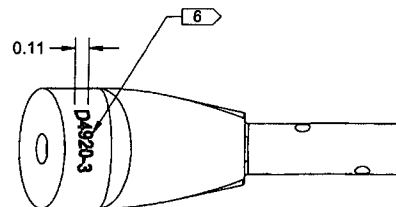
| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

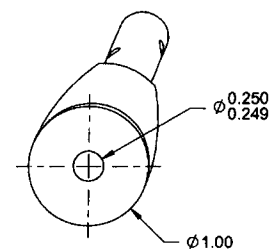
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |
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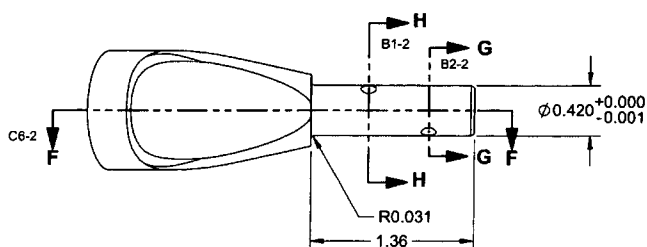
**SECTION F-F B7-2**



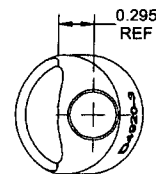
**AUXILIARY VIEW I-I D5-2**



**VIEW J-J D7-2**



**SECTION G-G B5-2**



**SECTION H-H B6-2**

**D4920-3 END FITTING**

**NOTES:**

- 1) MATERIAL: 17-4 PH/S17400/TYPE 630 SS ROUND BAR, H900 CONDITION  
PER AMS 5643/ASTM A564  
DART SPEC M17-4-R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.3.  
ENGRAVE P/N USING 0.11 HIGH LETTERS TO A MAX. DEPTH OF 0.010
- 7) WEIGHT: 0.17 lbs
- 8) LIQUID PENETRANT INSPECT PER QSI 038 6.1.1 (ASTM E1417 LEVEL 2)

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 121516 M15  
14-06-27

APPROVED

|            |          |                                                                                                                                                                                                                                                                                |              |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | RF       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                       |              |
| DRAWN      | RF       |                                                                                                                                                                                                                                                                                |              |
| CHECKED    | HS       | DRAWING NO.                                                                                                                                                                                                                                                                    | REV. A       |
| MFG. APPR. | JLM      | <b>D4920</b>                                                                                                                                                                                                                                                                   | SHEET 2 OF 2 |
| APPROVED   | HS       | TITLE                                                                                                                                                                                                                                                                          | SCALE        |
| DE APPR.   | DS       | <b>END FITTING</b>                                                                                                                                                                                                                                                             | NTS          |
| DATE       | 13.12.15 | COPYRIGHT © 2013 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br>WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24906**

Purchase Order Date 7/8/2014

PO Print Date 8/20/2014

Page Number 6 of 8

**Order From:**

VC-ATG001

**Ship To:** DART AEROSPACE LTD

A.T.G. INDUSTRIES INC.  
731 INDUSTRIELLE ROAD  
ROCKLAND, ON K4K 1T2  
CANADA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

613-446-4544

**Ship To Contact**

**Ship To Phone**

**Ship Via**

VENDOR'S TRUCK

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

**Line Total:**

10869-3P

End Fitting, Eye

12/19/2014 FN

Yes

12/19/2014

18.00 ✓  
Each

\$120.00

AS PER DWG D4869-3 REV. A

M121555

MAT 174PH-H900R 1" M127334

SP14-12-14

**Line Total:**

11920-3P

End Fitting

12/19/2014 FN

Yes

12/19/2014

18.00 ✓  
Each

\$120.50

AS PER DWG D4920-3 REV. A

M121516

MAT 174PH-H900R 1.5" M128809

SP15-01-7

**Line Total:**

10805-3P

End Fitting

12/19/2014 FN

Yes

12/19/2014

30.00 ✓  
Each

\$130.00

AS PER DWG D4805-3 REV. A

M121512

MAT 174PH-H900R 1.375" M121280 X 5.8FT, M126952 X 25.4FT, M123446 X 12.38FT

SP14-12-16

Note:

8/20/2014





A.T.G. INDUSTRIES INC.  
731 INDUSTRIELLE STREET  
ROCKLAND, ON K4K 1T2  
Canada

Ph: (613) 446-4544  
Fax: (613) 446-4556

### Pack List

Number: 909409

Date: 07-Jan-15

To

DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
Canada

Ship To

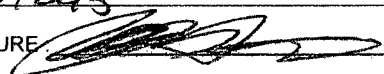
CHANTAL LAVOIE  
DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
Canada

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

| Terms                                                                                                                                                                                              |                                                                                                                                            | Ship Via              |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|
| Quantity                                                                                                                                                                                           | Description                                                                                                                                |                       |          |
|                                                                                                                                                                                                    | PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT.<br>IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544. |                       |          |
| 12<br>ea                                                                                                                                                                                           | Part: D4920-1P<br>END FITTING<br>Job: 16645                                                                                                | Rev: A<br>PO: PO24906 | Line: 10 |
| 16<br>ea                                                                                                                                                                                           | Part: D4884-3P<br>END FITTING, EYE<br>Job: 16646                                                                                           | Rev: A<br>PO: PO24906 | Line: 11 |
| ✓ 18<br>ea                                                                                                                                                                                         | Part: D4920-3P<br>END FITTING<br>Job: 16651                                                                                                | Rev: A<br>PO: PO24906 | Line: 16 |
| DATE: 07/01/2015                                                                                                                                                                                   |                                                                                                                                            |                       |          |
| CERTIFIED SIGNATURE:                                                                                            |                                                                                                                                            |                       |          |
| RECEIVER SIGNATURE: _____                                                                                                                                                                          |                                                                                                                                            |                       |          |
| Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. |                                                                                                                                            |                       |          |
| CERTIFICATE OF CONFORMANCE                                                                                                                                                                         |                                                                                                                                            |                       |          |
| A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO THE REQUIREMENTS.                                                                                                      |                                                                                                                                            |                       |          |
| MADE IN CANADA.                                                                                                                                                                                    |                                                                                                                                            |                       |          |

SP 15-01-7

SP15-01-7



# F.A.I.

## First Article Inspection Report

# **536**

|                                                |  |                                           |                                      |                                |
|------------------------------------------------|--|-------------------------------------------|--------------------------------------|--------------------------------|
| <b>Requesting Company:</b> Dart Aerospace      |  | <b>PO#:</b> PO24906                       | <b>Line:</b> 16                      | <b>Qty:</b> 18                 |
| <b>Part Number:</b> D4920-3P                   |  | <b>Rev:</b> A                             | <b>Part Description:</b> End Fitting |                                |
| <b>FAI Supplied by:</b> A.T.G. Industries Inc. |  | <b>FAI Prepared by:</b> Emily Louis-Seize |                                      | <b>Date:</b> July 14, 2014     |
| <b>Qty Inspected:</b> 18                       |  | <b>FAI Inspected by:</b> Mike Csontos     |                                      | <b>Date:</b> December 17, 2014 |

| Material and/or Special Processes |                  |                                    |                                    |
|-----------------------------------|------------------|------------------------------------|------------------------------------|
| Type                              | Description      | Specification Number/Code          | Certificate of Conformance Number: |
| Material                          | 17-4SS H900      |                                    | Supplied by Customer               |
| Special Process                   | Liquid Penetrant | QSI 038 6.1.1 (ASTM E1417 Level 2) | PO#: 20140525                      |
|                                   |                  |                                    |                                    |

| Inspection Information and Results |          |             |        |      |           |                        |              |
|------------------------------------|----------|-------------|--------|------|-----------|------------------------|--------------|
| Char#                              | Location | Requirement | Result | UoM  | Pass/Fail | Measurement Equipment: | Operation #: |
| 1                                  | D6       | 3.04        | 3.039  | inch | Pass      | Height Gauge           | 2            |
| 2                                  | D6       | 2.157±.005  | 2.158  | inch | Pass      | Height Gauge           | 3            |
| 3                                  | D7       | .40         | .401   | inch | Pass      | Height Gauge           | 2            |
| 4                                  | D6       | .500        | .500   | inch | Pass      | Height Gauge           | 3            |
| 5                                  | D5       | .38 REF     | .379   | inch | Pass      | Vernier Caliper        | 3            |
| 6                                  | D5       | .030        | .030   | inch | Pass      | Comparator             | 1            |
| 7                                  | D5       | .295        | .296   | inch | Pass      | Height Gauge           | 2            |
| 8                                  | D5       | .017        | .017   | inch | Pass      | Comparator             | 1            |
| 9                                  | C6       | 3.23        | 3.228  | inch | Pass      | Height Gauge           | 2            |
| 10                                 | C6       | Ø.820       | Ø.819  | inch | Pass      | Vernier Caliper        | 4            |
| 11                                 | D6       | R.43        | R.43   | inch | Pass      | Radius Gauge           | 2            |
| 12                                 | C6       | .500        | .501   | inch | Pass      | Micrometer             | 2            |

# Inspection Information and Results

| Char# | Location | Requirement      | Result  | UoM    | Pass/Fail | Measurement Equipment: | Operation #: |
|-------|----------|------------------|---------|--------|-----------|------------------------|--------------|
| 13    | C7       | .090             | .088    | inch   | Pass      | Micrometer             | 4            |
| 14    | C7       | .35              | .35     | inch   | Pass      | Vernier Caliper        | 2            |
| 15    | C7       | .090             | .086    | inch   | Pass      | Micrometer             | 4            |
| 16    | C7       | .410             | .409    | inch   | Pass      | Height Gauge           | 4            |
| 17    | D7       | R.50             | R.50    | inch   | Pass      | Gauge Pin              | 2            |
| 18    | D7       | Ø.047            | Ø.05    | inch   | Pass      | Gauge Pin              | 2            |
| 19    | D7       | R.06             | R.06    | inch   | Pass      | Radius Gauge           | 4            |
| 20    | D7       | 112.1°           | 112.1°  | degree | Pass      | Comparator             | 2            |
| 21    | D4       | .11              | .12     | inch   | Pass      | Vernier Caliper        | 2            |
| 22    | D4       | Note 6           | D4920-3 | n/a    | Pass      | Visual                 | 2            |
| 23    | D1       | Ø.250/.249       | Ø.2495  | inch   | Pass      | Gauge Pin              | 2            |
| 24    | C1       | Ø1.00            | Ø1.001  | inch   | Pass      | Vernier Caliper        | 2            |
| 25    | B5       | Ø.420+.000/-.001 | Ø.4197  | inch   | Pass      | Micrometer             | 1            |
| 26    | B6       | 1.36             | 1.362   | inch   | Pass      | Height Gauge           | 1            |
| 27    | B6       | R.031            | R.03    | inch   | Pass      | Radius Gauge           | 1            |
| 28    | C4       | .295 REF         | .295    | inch   | Pass      | Comparator             | 3            |
| 29    | B2       | 30°              | 30°     | degree | Pass      | Comparator             | 3            |
| 30    | B2       | Ø.125            | Ø.125   | inch   | Pass      | Gauge Pin              | 3            |
| 31    | B1       | 30°              | 30°     | degree | Pass      | Comparator             | 3            |
| 32    | B2       | Ø.125            | Ø.125   | inch   | Pass      | Gauge Pin              | 3            |
|       |          |                  |         |        |           |                        |              |
|       |          |                  |         |        |           |                        |              |
|       |          |                  |         |        |           |                        |              |

First Article Inspection Report Approved and  
Completed in Full by:

*M. C. [Signature]*

Date:

6-Jan-15

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

DOT APP 53-89 / EASA 145.7142 / BDA AMO 385

|                          |                              |               |                     |
|--------------------------|------------------------------|---------------|---------------------|
| WO #: MWO23142           | Customer: ATG Industries Inc | Dept: NDT YUL | Reference: 20140525 |
| Descr:                   | PN:                          | S/N:          | Qty: 1              |
| Make:                    | Model:                       | Reg:          | A/C S/N:            |
| TSN:                     | CSN:                         | TSO:          |                     |
| Task: <b>UNSCHEDULED</b> |                              |               | Sequence: 1         |

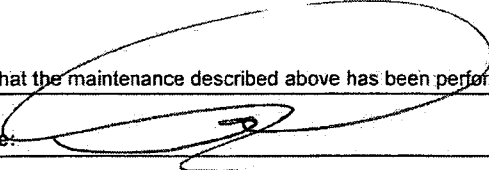
**Work Required:**

CARRY OUT NDT ON SEVENTY-FIVE PARTS AS PER PO :20140525

|                 |                     |
|-----------------|---------------------|
| CLEVIS          | P/N D4806-1P QTY:12 |
| END FITTING     | P/N D4920-1P QTY:12 |
| END FITTING EYE | P/N D4884-3P QTY:16 |
| END FITTING     | P/N D4885-5P QTY:6  |
| END FITTING     | P/N D4885-7P QTY:11 |
| END FITTING     | P/N D4920-3P QTY:18 |

| <b>Action Taken:</b>                                                      |          |     |     |       | <b>Date:</b> | <b>Initial/Stamp:</b>                                                                                                                                                          |
|---------------------------------------------------------------------------|----------|-----|-----|-------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LIQUID PENETRANT INSPECTION CARRIED OUT AS PER ASTM E-1417M-13            |          |     |     |       | JAN 06 2015  | <br> |
| NO CRACK FOUND                                                            |          |     |     |       |              |                                                                                                                                                                                |
| PEN.(ZL-37 , B#10A070), DEV.(SKD-S2,B#13D14k) ,<br>EMU.(ZR-10B,B#10A074). |          |     |     |       |              |                                                                                                                                                                                |
| Description                                                               | Location | P/N | Qty | Batch | S/N Off      | S/N On                                                                                                                                                                         |
|                                                                           |          |     |     |       |              |                                                                                                                                                                                |
|                                                                           |          |     |     |       |              |                                                                                                                                                                                |
|                                                                           |          |     |     |       |              |                                                                                                                                                                                |
|                                                                           |          |     |     |       |              |                                                                                                                                                                                |
|                                                                           |          |     |     |       |              |                                                                                                                                                                                |
|                                                                           |          |     |     |       |              |                                                                                                                                                                                |

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

|                                                                                                |                                                                                                        |                      |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------|
| Signature:  | ACA/SCA Stamp<br> | Date:<br>JAN 06 2015 |
| Name: <b>RAFIK MELIKIAN</b>                                                                    |                                                                                                        |                      |

SKYM002-1 REV 4 Mar/14

**COPY**